

**FY2014 SECTION 106 WORKPLAN  
REGION 4 Kentucky – GROUND WATER**

**Draft or Final (Underline one)**

**Date of latest workplan revision: 12/12/2014**

EPA Technical Point of Contact: Robert Olive  
EPA Project Officer: Karen Gardner  
State Point of Contact: David Jackson

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The EPA Grant Policy Issuance 11-03, *State Grant Workplans and Progress Reports* (GPI 11-03), requires that all workplans for state categorical program grants prominently display EPA's strategic goals and objectives as identified in the document *FY 2011-2015 EPA Strategic Plan* (EPA-190-R-10-002). In its Annual Commitments System (ACS) document, the Office of Water has identified specific measures that address the strategic goals and objectives outlined by EPA in its strategic plan. For each task identified in this program workplan, references to the corresponding ACS measures were included under the column "*Basis for 106 Workplan Task*." These references ensure that all of the specific commitments made by the State are properly correlated to the strategic goals and objectives of the Agency.

The tasks identified in this workplan address the following goal and objective:

**Goal 2: Protecting America's Waters.** Protect and restore our waters to ensure that drinking water is safe, and that aquatic ecosystems sustain fish, plants and wildlife, and economic, recreational, and subsistence activities.

**Objective 2.2: Protect and Restore Watersheds and Aquatic Ecosystems.** Protect the quality of rivers, lakes, streams, and wetlands on a watershed basis, and protect urban, coastal, and ocean waters.

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**Grant Program: Ground Water 106 Grant Program  
Goal 2 - Goal 2 – Protecting America's Waters**

<b>Task No.</b>	<b>106 Ground Water Workplan Task Description</b>	<b>Basis for 106 Workplan Task</b>	<b>Commitments Outputs/Outcomes</b>	<b>Due Date</b>	<b>EPA Comments</b>	<b>End-of-Year State Report/ State Comments (Indicate whether task has been met by writing the date the task was completed. If the task is not completed, provide an explanation for any delays or issues encountered.)</b>
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***Ground Water Program Elements***

<b>1</b>	Provide Integrated Reports consistent with EPA's guidance for Assessment, Listing, and Reporting Requirements pursuant to Sections 303(d), 305(b), 314 of the Clean Water Act.	Grant requirement	Outputs: State Ground Water Program will provide ground water reports and updates to be included with the State 305(b) Report. This report is required under the Water Pollution Control Act as a grant requirement. Mechanism for monitoring improved water quality. Outcome: Protection of ground water and public health	Ground water report due April 1 on even years. Updates to the 305(b) report are due April 1 on odd years.		Water quality data from the state ambient groundwater monitoring network were submitted to the program coordinator of the 305(b) program for inclusion in the 305(b) report. The FY2014 106 Year End report documents groundwater protection activities and public health initiatives. This report was also made available for inclusion in the 305 (b) report
<b>2</b> revis	Use a portion of the water quality monitoring resources to assess attainment of public water supply use and consider	Office of Water National Program Guidance	Outputs: Report on Ground Water Program participation/activities in relation to the State monitoring strategy.	End-year (12/31/2014)	Provide detailed information in Annual Performance Report. Sample format is provided in file: GW annual report 2014.docx.	A year end summary of groundwater quality monitoring initiatives and activities are included in the attached report.

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Grant Program: Ground Water 106 Grant Program  
Goal 2 - Goal 2 – Protecting America's Waters

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	using water quality or compliance monitoring data collected by public water systems in assessing water quality and determining impairment.	(NPG)	Mechanism for monitoring improved water quality. Outcome: Protection of ground water and public health			
3	Protect ground water and source water areas by reducing the occurrence of ground water pollution.	NPG Measure SDW-SP4a and SDW-SP4b	Output: Report on the actions/measures that the State has taken to identify, prevent and abate sources of contamination/pollution Outcome: Uncontaminated ground water and safe drinking water.	End-year (12/31/2014)	Provide detailed information in Annual Performance Report. Sample format is provided in file: GW annual report 2014.docx.	Protection strategies have been developed and implemented through groundwater protection plans (GPPs), wellhead protection plans (WHPs), source water assessment protection plans (SWAPP) and educational initiatives. Please see attached plan for details
4	Develop and implement ground water quality standards/ risk based rules	NPG Measure, SDW-SP4a and SDW-4b	Output: Report on development, amendments, and rule-making activities that are related to ground water resources.	End-year (12/31/2014)	Provide detailed information in Annual Performance Report. Sample format is provided in file: GW annual report 2014.docx.	Groundwater quality standards and risk based rules are continually evaluated and assessed for protection of groundwater resources.

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			Outcome: clean and safe drinking water.			Please see attached report for details.
5	Consider development and implementation of a plan to characterize the states ground water resources.	Program priority	Output: Report plans and activities designed to characterize ground water resources from a regional or statewide perspective. Outcome: Clean and safe ground water.	End-year (12/31/2014)	Provide detailed information in Annual Performance Report. Sample format is provided in file: GW annual report 2014.docx.	Aquifer characterizations continued through 2013 with the collection of groundwater data. These data are made available to public and private individuals through access to the Kentucky Groundwater Repository. See attached report for details.
6 new	Consider designing and implementing a State ground water monitoring program.	Program priority	Output: Report plans and activities to design and maintain a state ambient ground water monitoring network. Report results of monitoring program. Outcome: Understanding trends in ground water quality.	End-year (12/31/2014)	Provide detailed information in Annual Performance Report. Sample format is provided in file: GW annual report 2014.docx.	Kentucky has an ambient groundwater monitoring program. It was initiated in 1994 and legislatively funded in 1998. Data is housed in an official groundwater repository at the Kentucky Geological Survey where it is made electronically available to the public and private

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### Grant Program: Ground Water 106 Grant Program Goal 2 - Goal 2 – Protecting America's Waters

Task No.	106 Ground Water Workplan Task Description	Basis for 106 Workplan Task	Commitments Outputs/Outcomes	Due Date	EPA Comments	End-of-Year State Report/ State Comments (Indicate whether task has been met by writing the date the task was completed. If the task is not completed, provide an explanation for any delays or issues encountered.)
7	Other Ground Water Protection Activities	State program priority	Output: Report other activities that seek to prevent, identify, reduce, or eliminate ground water pollution. Include the objective, methods, deliverable outputs, and planned milestone schedule for each activity. Outcome: Protection of ground water and public health.	End-year (12/31/2014)	Provide detailed information in Annual Performance Report. Sample format is provided in file: GW annual report 2014.docx.	A complete outline of groundwater protection activities are identified and discussed in detail in the attached report

### Source Water Program Elements

8	Percent of community water systems where risk to public health is minimized by source water protection and percent of the	NPG Measure SDW-SP4a and SDW-	Output: Definition of substantial implementation to determine "minimized risk". Narrative	03/12/2014	Report using: 2013 Source Water Protection Reporting Form attached below, for Strategic Target SDW-SP4a and SDW-SP4b.	Source water assessment activities are outlined and reported in the attached report
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	population served by community water systems where risk to public health is minimized through source water protection.	SP4b	description and percent of CWS that have strategies in place and that are being implemented Outcome: Protection of source waters and public health.			
9 New	States are encouraged to participate in the Source Water Collaborative	NPG	Output: Report specific activities to leverage resources using the multi-partner Source Water Collaborative. Outcome: Protection of source waters and public health.	End-year (12/31/2014)	Provide detailed information in Annual Performance Report. Sample format is provided in file: GW annual report 2014.docx.	KDOW is exploring opportunities to participate in the Source Water Collaborative
10 New	States should consider placing a high priority on (a) waterbodies where state or local source water assessments have identified highly threatening sources of contamination that are	NPG	Outputs: Report on activities to coordinate with surface water programs to ensure that potential contaminant sources are identified. Outcome: Protection of	End-year (12/31/2014)		KDOW actively assesses and prioritizes all waterbodies within the state for threatening sources of contamination through contaminate source inventories,



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Grant Program: Ground Water 106 Grant Program Goal 2 - Goal 2 – Protecting America's Waters						
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	subject to CWA and (b) the development and implementation of TMDLs to address impairments of the public water supply use. In particular, States should consider the relationship between point source dischargers and drinking water intakes in setting permit requirements and inspection and enforcement priorities.		public health and protection of source waters.			permit requirements, TMDL development, NPS studies, complaint investigations, etc. Details of these activities are included in the attached report.
11	Other Source Water/Wellhead Protection Activities	Program priority	Output: Report specific activities that support implementation of the State Source Water/Wellhead Protection Programs. Outcome: Protection of ground water /source waters and public health.	End-year (12/31/2014)	Provide detailed information in Annual Performance Report. Sample format is provided in file: GW annual report 2014.docx.	Wellhead protection activities are outlined in detail in the attached report

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**Other Activities**

12	Education and Outreach	State program priority	Output: Report participation in education and outreach programs as well as direct interactions with communities concerning activities/action plans to address ground water contamination. Outcome: Protection of ground water and public health.	End-year (12/31/2014)	Provide detailed information in Annual Performance Report. Sample format is provided in file: GW annual report 2014.docx.	Education and Outreach Activities are described in detail in the attached report
13	Cross-program/cross agency coordination	State & EPA program priority	Output: Report activities (other than source water/wellhead protection) that involve and promote	End-year (12/31/2014)	Provide detailed information in Annual Performance Report. Sample format is provided in file: GW annual report 2014.docx.	Cross-Program/Cross agency Coordination activities are described in the attached report.



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			coordination/collaboration with other programs and agencies. Outcome: Protection of ground water and public health.			
14	Data management/ GIS	State program priority	Output: Report activities that focus specifically on data acquisition, integrating ground water data with other environmental data, and /or increasing the accessibility of ground water data among different programs and agencies of the State and EPA. Outcome: Protection of ground water and public health.	End-year (12/31/2014)	Provide detailed information in Annual Performance Report. Sample format is provided in file: GW annual report 2014.docx.	Data Management activities are described in the attached report.
15	Environmental Justice	State & EPAprogr	Output: Report activities that	End-year (12/31/2014)	Provide detailed information in Annual Performance	Environmental Justice activities are described in

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16	Quality Assurance: Quality Management Plan (QMP) The State shall maintain an up-to-date and approved Quality Management Plan (QMP). The State shall review its QMP at least annually to reconfirm its suitability and effectiveness. When significant changes occur, as defined in EPA QA/R-2, the State shall revise and resubmit the QMP to EPA for review and approval.	In accordance with EPA Order 5360.1 A2 and EPA Requirements for Quality Management Plans, EPA QA/R-2.	Output: Up-to-date and approved QMP. Outcome: Protection of ground water and public health.	12/31/2013	Send confirmation to EPA	The QMP was reviewed in 2014 for applicability and correctness. KY's current QMP was approved by EPA on 02/23/11. The next revision will be submitted on or before 02/23/16.
		an priority	specifically target and/or assist minority and low –income communities in ground water protection. Outcome: Protection of ground water and public health.		Report. Sample format is provided in file: GW annual report 2014.docx.	detail in the attached report

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17	The State shall maintain an up-to-date and approved Quality Assurance Project Plan (e.g., State's ambient GW monitoring program, secondary dates).	EPA Order 5360.1 A1 40 CFR §31.45	Output: QAPP Submit revisions to existing plan or statement that there were no revisions. Outcome: Protection of ground water and public health.	12/31/2013	Send confirmation to EPA	The QAPP for the ambient monitoring groundwater network is current. It will be revised in 2015 and submitted to EPA for review and approval.
18	The State shall commit to fund travel for appropriate staff to attend Regional/National meetings (e.g., State Water Directors meeting) that focus on ground water and source water protection issues	Requested by State	Output: Increased knowledge concerning protection of ground water and source water, including activities of other States. Outcome: Protection of ground water and public health.	09/30/2013	Provide list of meetings to be attended	KDOW continues to evaluate training and travel requirements in light of current budget allocations and requirements.
19 New	Annual Performance Report	40 CFR §31.40(b)	Output: Prepare report using format provided by EPA Region 4, FY13annual report.doc	End-year (12/31/2014)	Sample format is provided in file: GW annual report 2014.docx.	The Groundwater Section submits a comprehensive Annual Performance Report that meets USEPA Region 4

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**GROUND WATER WORK PLAN COMPONENTS (PROGRAM ELEMENT BUDGET)**

FY_2014_____ PLANNED GW106 EXPENSES & WORK YEARS OF EFFORT BY PROGRAM COMPONENT						
WORKPLAN COMPONENTS	FEDERAL FUNDS \$	STATE FUNDS \$	COMBINED STATE & FEDERAL FUNDS \$	PLANNED WORK YEARS (WY) OF EFFORT		
				STATE WY	FEDERAL WY	TOTAL WY
GROUND WATER PROTECTION ACTIVITIES						
STATE MONITORING STRATEGY/PROGRAM						
AQUIFER CHARACTERIZATION						
OTHER GROUND WATER ACTIVITIES						
SOURCE WATER / WELLHEAD PROTECTION						
CROSS-PROGRAM / CROSS-AGENCY COORDINATION						
DATA MANAGEMENT / GIS						
EDUCATION AND OUTREACH						
ADMINISTRATIVE						
OTHER						
TOTAL						

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Goal 2 – Safe and Clean Water

**2013 Source Water Protection Reporting**

**State: \_\_\_\_\_**

Report to EPA March 12, 2014 (data as of December 31, 2013\*)

CWSs with SWP that achieved "substantial implementation" according to State definition		
Cumulative		
# of CWSs with SWP (SP-4a) Ground and Surface Water		# of people served by CWSs with SWP (SP-4b)

SP-4a & SP-4b are source water protection reporting measures listed in the 106 workplan  
Please report numeric values only, not percentages.

\*We will be happy with data as of any date.

- **Define "Substantial Implementation" of your source water protection program.**

- **Narrative program updates:**

Please provide narrative updates to your Source Water Assessment activities (new assessments, updates/revisions to previously completed assessments, other information) and Source Water Protection activities (state approved plans, drinking water legislation, use of the State Revolving Fund (SRF), industry based protection initiatives, state/local/federal agency agreements or partnerships, regulatory implementation, other information).